

# Desktop Metal Launches Studio System 2, the Easiest Way for Designers and Engineers to Print Complex, High-Performance Metal Parts in the Office

## Next-Generation Technology Further Simplifies Metal 3D Printing for Low Volume Production with a Breakthrough, Two-Step Process

- Building off the success of Desktop Metal's Studio System+, the new Studio System 2 enables high-quality metal parts production in an office environment with a simplified two-step solution that eliminates the need for a solvent debind phase
- Innovative enhancements include new print profiles and an all-new material system designed to deliver superior part quality, accuracy, and surface finish while minimizing printing trial and error across a wider range of complex geometries
- Desktop Metal's Fabricate software workflow fully automates part creation through printing and sintering to produce high-quality, end-use parts with densities and feature accuracy similar to casting
- Worldwide shipments of the Studio System 2 are set to begin in first quarter of 2021, with all existing Studio System customers eligible to upgrade

BOSTON--(BUSINESS WIRE)-- Desktop Metal (NYSE: DM), a leader in mass production and turnkey additive manufacturing solutions, today announced the launch of Studio System™ 2, a simplified, office-friendly metal 3D printing technology that offers customers the easiest way to print metal parts in low volumes for pre-production and end-use applications.

This press release features multimedia. View the full release here:  
<https://www.businesswire.com/news/home/20210202005325/en/>

“As additive manufacturing adoption advances worldwide, Desktop Metal continues to drive innovations that enable the technology to more effectively compete with conventional manufacturing processes,” said Ric Fulop, CEO and co-founder of Desktop Metal. “Our next-generation Studio System 2 takes the best features of the original Studio System+ and significantly improves upon them, delivering higher quality end-use metal parts through a more streamlined and accessible process, and within an even smaller footprint.”

### The Studio System - Office-Friendly Metal 3D Printing

The Studio System, which first debuted in 2017, is an office-friendly metal additive manufacturing system that leverages Desktop Metal's proprietary Bound Metal Deposition™ (BMD) technology, a powder metallurgy-based process in which loose powders and dangerous lasers commonly associated with metal 3D printing are eliminated in favor of bound metal rods to shape parts layer-by-layer. The original Studio System, consisting of a



Desktop Metal today announced the launch of Studio System 2. Designed for the office, this next generation technology is the easiest way to 3D print complex, high-performance metal parts in low volumes for pre-production and end-use applications. (Photo: Business Wire)

Institute of Technology (MIT), Texas A&M University, and the Polytechnic University of Milan (Politecnico di Milano), are turning to the Studio System for a range of applications from pre-production functional prototypes to manufacturing low volumes of end-use parts.

### **Next-Generation Metal 3D Printing in 2 Steps — Print and Sinter**

The next-generation Studio System 2 retains all the critical features of the original Studio System, while delivering advancements that make metal 3D metal printing even easier, more reliable and accessible. Benefits include:

- **Breakthrough, two-step process.** Studio System 2 eliminates the use of solvents with all-new material formulations that allow parts to be transferred directly from the printer into the furnace. The result is an accessible two-step process with a nearly hands-free experience that also reduces consumables usage and overall system footprint.
- **Wide range of complex geometries.** Designed to consistently deliver high-performance metal parts, Studio System 2 minimizes the trial and error common in alternative 3D printing processes, enabled by new print profiles and a re-engineered interface layer material for more even shrinkage during sintering and increased part

printer, debinder and furnace, simplified in-house production of low volumes of complex, high-quality metal parts.

Shipping in volume since the fourth quarter of 2018, the Studio System has been adopted by hundreds of customers spanning more than 30 countries. Industry leaders like Ford Motor Company, BMW Group, Eaton Corporation, Google LLC, 3M Company, Stanley Black & Decker, Inc., Lockheed Martin Corporation, Goodyear Tire & Rubber Company, Moen Incorporated, and educational institutes such as Massachusetts

success across an array of geometries.

- **Enhanced surface finish.** The Studio System 2 printer's heated build chamber and new print profiles produce outstanding surface finish right out of the furnace across side walls and support-facing surfaces.
- **High-strength, triply periodic minimal surface (TPMS) infill.** New isotropic TPMS infill creates strong parts, ideal for end-use applications. Vacuum sintering in the Desktop Metal furnace at temperatures of up to 1400°C produces parts and mechanical properties that are similar to castings and meet or exceed Metal Powder Industries Federation (MPIF) standards.
- **Broad portfolio of materials.** The Studio System 2 is launching with 316L stainless steel, an excellent corrosion resistant and general-purpose material used across a variety of industries for applications such as manifolds, nozzles, brackets, latches, and jewelry. A broad portfolio of additional materials that take advantage of the new streamlined, two-step process is in active R&D with new releases slated to rollout in 2021. In addition, the Studio System 2 will be backwards-compatible through the use of the debinder, with all materials previously supported by the Studio System, including 17-4PH stainless steel, 4140 low alloy steel, H13 tool steel, and Copper.
- **Software controlled workflow.** Desktop Metal's Fabricate™ software features new, default print profiles tailored to the Studio System 2 process that simplify build preparation while still providing users access to more than 90 customizable print settings. Fabricate also generates Separable Support structures with strategic splits to avoid locking during post-processing and fully automates thermal debind and sintering cycles.

“Based on the success of our original Studio System, we know companies around the globe are eager to adopt our new, more streamlined Studio System 2 process to produce difficult-to-machine parts featuring complex geometry like undercuts and internal channels,” said Fulop. “Across manufacturing, tooling, automotive, consumer products and electronics, and medical applications, companies are sharing how additive manufacturing is challenging their design and engineering teams to think differently about how to optimize designs for best-in-class part success.”

The Studio System 2, which is set to begin worldwide shipments in the first quarter of 2021, will also be available through an upgrade for all existing Studio System customers.

## About Desktop Metal

Desktop Metal, Inc., based in Burlington, Massachusetts, is accelerating the transformation of manufacturing with end-to-end 3D printing solutions. Founded in 2015 by leaders in advanced manufacturing, metallurgy, and robotics, the company is addressing the unmet challenges of speed, cost, and quality to make 3D printing an essential tool for engineers and manufacturers around the world. Desktop Metal was selected as one of the world's 30 most promising Technology Pioneers by the World

Economic Forum; named to MIT Technology Review's list of 50 Smartest Companies; and recognized among the most important innovations in engineering in Popular Science's "Best of What's New." For more information, visit [www.desktopmetal.com](http://www.desktopmetal.com).

## Forward Looking Statements

This document contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities and Exchange Act of 1934, as amended. Forward-looking statements generally relate to Desktop Metal's future financial or operating performance. These forward-looking statements generally are identified by the words "believe," "project," "expect," "anticipate," "estimate," "intend," "strategy," "future," "opportunity," "plan," "may," "should," "will," "would," "will be," "will continue," "will likely result," and similar expressions, including the negatives of such terms. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties. Many factors could cause actual future events to differ materially from the forward-looking statements in this document, including but not limited to: (i) the ongoing COVID-19 pandemic and measures taken by Desktop Metal, its customers and suppliers, and governmental authorities in response thereto; (ii) the possibility that the Company may be adversely affected by other economic, business, and/or competitive factors, including downturns in the highly competitive additive manufacturing industry; (iii) the ability to implement business plans, forecasts, and other expectations and identify and realize additional opportunities; and (iv) other risks and uncertainties set forth in the section entitled "Risk Factors" and "Cautionary Note Regarding Forward Looking Statements" in the S-1 Registration Statement filed by the Company with the U.S. Securities and Exchange Commission (the "SEC") on December 23, 2020, as amended, and the Company's other filings with the SEC. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and the Company assumes no obligation and does not intend to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise. The Company does not give any assurance that it will achieve its expectations.

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